

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
6 October 2005 (06.10.2005)

PCT

(10) International Publication Number
WO 2005/092920 A1

(51) International Patent Classification⁷: **C07K 14/435**,
C12N 15/12

(21) International Application Number:
PCT/KR2005/000888

(22) International Filing Date: 25 March 2005 (25.03.2005)

(25) Filing Language: Korean

(26) Publication Language: English

(30) Priority Data:
60/556,805 26 March 2004 (26.03.2004) US

(71) Applicants (for all designated States except US):
POSTECH Foundation [KR/KR]; San 31, Hyoja-dong,
Nam-ku, Pohang-city, Kyungsangbuk-do 790-784 (KR).
POSCO [KR/KR]; 1, Goedong-dong, Nam-ku, Po-
hang-shi, Kyungsangbuk-do 790-300 (KR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **CHA, Hyung**

Joon [KR/KR]; 4-1202, Faculty Apt., Jigok-dong,
Nam-ku, Pohang-city, Kyungsangbuk-do 790-751 (KR).
HWANG, Dong Soo [KR/KR]; 1045-9 Ochi-dong,
Buk-gu, Gwangju-city 500-130 (KR).

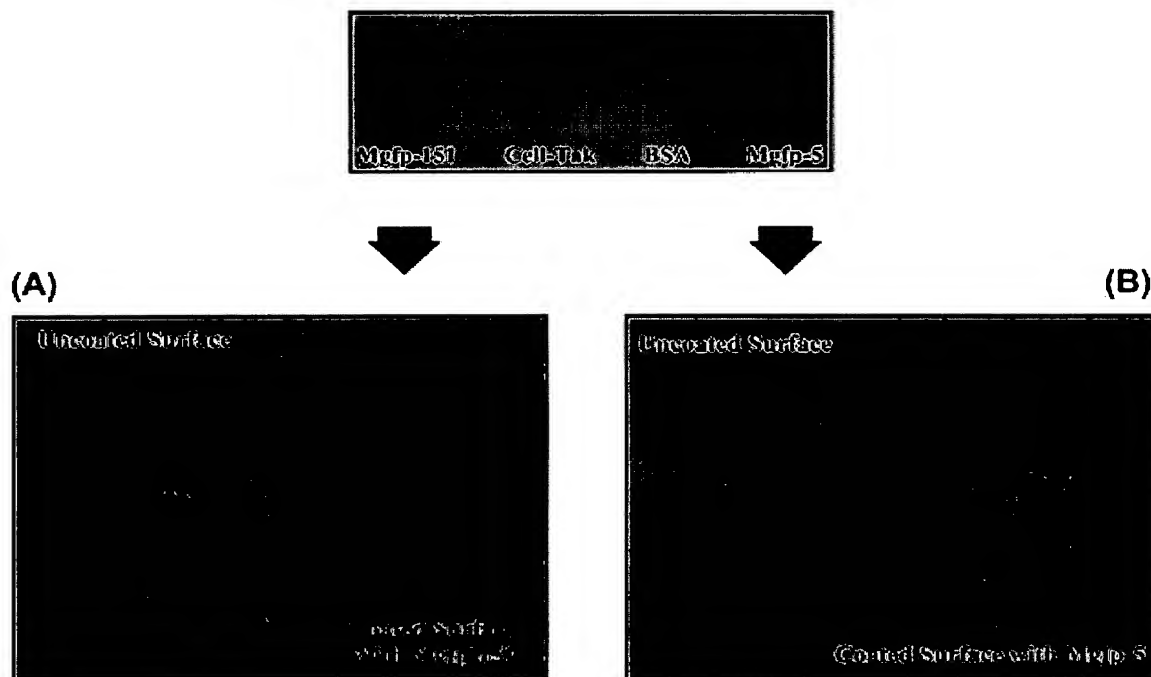
(74) Agent: **YOU ME Patent & Law Firm**; Seolim Bldg.,
649-10, Yoksam-dong, Kangnam-ku, Seoul 135-080 (KR).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ,
TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA,
ZM, ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),

[Continued on next page]

(54) Title: MUSSEL BIOADHESIVE



(57) Abstract: The present invention relates to a bioadhesive derived from mussel. In particular, it relates to a novel Mytilus galloprovincialis foot protein type 5 (MGFP-5) and a recombinant protein that is a hybrid of MGFP-5 and foot protein type 1 (FP-1), where an adhesive protein with adhesive activity can be economically mass-produced to be used in place of chemical adhesives through the present invention.

WO 2005/092920 A1



European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.